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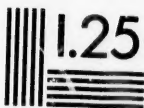
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# MICROCOPY RESOLUTION TEST

(ANSI and ISO TEST CHART)



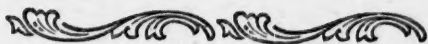
# XEROCOPY RESOLUTION TEST CHART

(ANSI and ISO TEST CHART No. 2)



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- 2nd Battalion -

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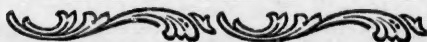
VANCOUVER, B. C.



**Detail for 64-Pdr.**  
**R. M. L.**



March, 1897.



## 64-Pr. R. M. L. Converted Gun of 71 cwt.

Converted from 8 inch. S. B. of 65 cwt. by boring out and inserting rifled wrought iron tube, which is prevented from moving by screw-collar in muzzle and screw-pin through chase.

Length—Nominal. 9 ft.

Calibre—6.3 inches.

Nominal Weight—71 cwt.

Rifling—Three "Plain" grooves. Twist one in 40  
calibres, uniform.

Charge— $8\frac{1}{4}$  lbs. R. L. G. 4.

### FUZES.

**Percussion**—Direct Action and Royal Laboratory.  
(Used with Common Shell.)

**Time**—15 sec. M. L. and Middle Sensitive. (Used  
with Shrapnell.)

### PROJECTILES.

Natures.	Weight Empty.		Burst.	Mean Total Weight	
	lbs.	oz.	lbs.	oz.	
Common Shell,	57	6,	8 8, P. & F. G.	65	14
Shrapnell,	66	14,	9,	67	7
Case Shot,	.....	.....		49	$14\frac{1}{2}$

### Wrought Iron Standing Carriage.

64-Pr. 71 cwt. Weight, 17 cwt. 1 qr.

The carriage consists of 2 skeleton brackets, connected by axle-trees and transom bolts; trucks of elm, metal bushed and iron shod. Metal trucks are issued to save others. Elevating screw of ratchet head and lever pattern.

Side Sights,  $\left\{ \begin{array}{l} 2 \text{ Tangent sights.} \\ 2 \text{ Trunnion sights.} \end{array} \right.$

Muzzle velocity, 1260 ft. per second.

## General Duties

The **Gun Captain** commands  
to the Gun Group Commander for the  
cient service of his gun in all respects.

The Gun is never to be fired with  
command. At practice he is responsi  
Layer knows the target ordered.

Reads and gives Quadrant Elevat  
numbers when they cannot read the m

When time fuzes are employed, h  
them.

The **Gun Layer**.—His special  
of the Gun. When laying at a movin  
Layer will invariably lay on the bow  
otherwise ordered by the Gun Group

He directs the elevating and traver  
signals or otherwise.

He always attends to vent and mak

**No. 2** searches, rams home, repla  
up, traverses and sponges.

**No. 3** loads, uncaps fuze or ren  
rams home, runs up and traverses.

**No. 4** supplies side arms, runs  
fires.

**No. 5** supplies wedge wads and

**No. 6** attends cartridge store and  
with cartridges.

**No. 7** attends shell store, fixes  
up projectiles.

## General Duties.

—:—

**Captain** commands and is responsible as Group Commander for the regular and efficient use of his gun in all respects.

Never to be fired without his word of command. In practice he is responsible that the Gun is at the target ordered.

When giving Quadrant Elevation to elevating gun, if they cannot read the means themselves.

When fuzes are employed, he bores or sets

**Layer.**—His special duty is the laying of the gun. When laying at a moving target, the Gun Layer is to remain on the bow waterline, unless ordered by the Gun Group Commander.

He is responsible for elevating and traversing numbers by the Gun Layer.

He tends to vent and makes ready.

When the gun is ready, he rams home, replaces rammer, runs down and sponges.

When the gun is ready, he uncaps fuze or removes safety pin, and runs up and traverses.

When the gun is ready, he supplies side arms, runs up, elevates and

When the gun is ready, he supplies wedge wads and runs up.

When the gun is ready, he supplies cartridge store and supplies No. 3

When the gun is ready, he supplies shell store, fixes fuzes and brings

## To Prepare for Action and Examine Gun.

### Gun Group Commander

“Prepare for Action and Examine Gun.”

### Gun Captain

“Prepare for Action.”

At “Prepare for Action” each number brings up his stores as follows :—

**Gun Layer.**—Sights, tubes, tube box, lanyard, prick, vent service, and 6 ft. handspike, and for drill purposes a drill tube.

**No. 2.**—Side arms and support, and a 6 ft. handspike.

**No. 3.**—A 6 ft. handspike.

**No. 4.**—Elevating screw, 6 ft. handspike, and assists No. 2 with side arms.

**No. 5.**—6 ft. handspike, wedge wads, and assist No. 7.

**No. 6.**—Two cartridge cases, bucket filled and brush, and for drill purposes a drill cartridge.

**No. 7.**—Fuzes, and fuze implements, piece of chalk, waste, and for drill purposes a drill shell, running back tackle and one or two selvagees.

The stores having been brought up, they will be laid down as follows :—

**Gun Layer.**—Receives the tubes from the shell store. He straps the tube box round his waist on right side, and lays the lanyard over the cascable, placing the loop over, and the hook through the lanyard guide. He fixes sights, taking care that the fore-sights fit correctly, and that the deflection leaves of the hind sights work easily. He places the prick in the loop on the side of carriage, examines the vent server and places it in the vent with the loop over one of the hind sights, and his handspike in rear of the carriage, bevel up, clear of the recoil.

**2** places the side arms on right of carriage, parallel to gun, heads to the rear rammer nearest gun. He

places his handspike close to the carriage, point to the front, bevel up, the point to be in line with the centre of the front axletree.

**3** places his handspike close to the carriage on the left side, point to the front, bevel up, the point to be in line with the centre of front axletree.

**4** places the elevating screw in rear of the carriage, and his handspike inside of 2's, and about 2 feet in rear, point to front, bevel up.

**5** places the wedge wads on the right of his position when under cover, and his handspike inside of 3's, and about 2 feet in rear, point to front, bevel up.

**6** places the sponge bucket and brush near the sponge head and takes the cartridge case to the cartridge store.

**7** places the time fuzes, hook borer, and piece of chalk in a convenient position for the gun captain. Assisted by 5, overhauls the tackles.

The **Gun Captain** now gives "*Examine Gun*," and sees :—That the gun itself is properly examined by the numbers whose duty it is to do so, and that the fuzes and fuze implements have been brought up and are ready to his hand, and that a piece of paper is placed in the gas escape hole. He receives reports from the numbers responsible of any irregularity or deficiency in connection with the different parts of the gun, carriage, stores, &c.

**Gun Layer** drifts the vent and replaces pricker and vent server.

**2** supplies himself with a searcher and searches the gun, taking care that the pricker is not in the vent, and replaces searcher ; he then supplies himself with the sponge, sponges, and replaces it.

**3** examines the bore to see that it is clear, and that the grooves are free from grit.

**4** sees that the elevating gear is oiled and in working order.

**2** and **3** now take a purchase with handspikes over the cheeks and under the breech (5 doublemans 3's handspike), the quoin is withdrawn and the elevating

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screw put in by 4; the Gun Layer holding up the stool bed with a handspike applied over the bottom step of the carriage.

The Gun Captain then gives the order "*Come Up*;" 2 and 3 withdraw their handspikes and lay them down.

In laying the gun after loading, no elevating of the breech with handspikes, or movement of the quoin, should be necessary. The quoin should be properly adjusted, half way in, also the elevating screw run down till the gun is elevated two or three degrees, when preparing for action. Afterwards all elevation should be done by the screw. Should any variation of elevation greater than that obtained be screw by required, quoins should be re-adjusted at the command "*With handspikes elevate*," when 2 and 3 apply their handspikes (5 doublemans 3's).

After each number has completed his work as above, he goes "*under cover*."

The positions of the various numbers "*under cover*" are as follows. They should then, if possible, be sitting or lying down:—

**Gun Captain**—Where he can best regain his position for superintending the working of the gun.

**Gun Layer**—On the left of No. 4.

Nos. 2 and 4 on the right of the gun, 2 next the muzzle.

Nos. 3 and 5 on the left of the gun, 3 next the muzzle.

No. 6 outside the cartridge store.

No. 7 outside the shell store.



